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1. Foreword

Congratulations with the purchase of your US Blaster USB 4022 Home Cinema set. You now have high-quality sound equipment.
The set consists of a center unit with a low tone speaker and amplifiers for all speakers, four satellite speakers and center speaker. The speakers are all protected by metal to prevent the speakers' magnetic fields having any influence on other equipment. Any faults from or to video signals are also prevented.
The center unit has line inputs to connect, for example, a DVD player, receiver or computer, and so listen to the sound coming from them in 5.1 Surround.
The Black Label Reference Series does not have built-in sound decoders (Dolby Surround, DTS, Dolby Digital, etc), so the media to be connected must have similar decoders and outputs for the different sound channels. If you want to connect a receiver to the Black Label Reference Series it must have pre-amplifier line outputs (Pre Out).

US Blaster recommends that you read this manual before you start using the Black Label Reference Series.
If you have questions, please contact:

Package contents
We recommend that you check all the components are included in the pack before using the USB 4022. If anything is missing, we recommend you contact your supplier!
The pack must contain the following components:

- a center unit with a low tone speaker and amplifiers for all speakers
- four satellite speakers;
- a center speaker.

You will also find the following attachments in the pack:

- English manual;
- Remote control with two penlight batteries;
- Mans cable with earth connection;
- 30 metre speaker cable;
- Three stereo cinch connecting cables.

2. Safety instructions

The US Blaster USB 4022 is intended for normal home use. Before you start using your Black Label Reference Series you must be aware of the following safety instructions!

This equipment contains components with an electric power supply. This current is strong enough to cause electric shocks if touched.

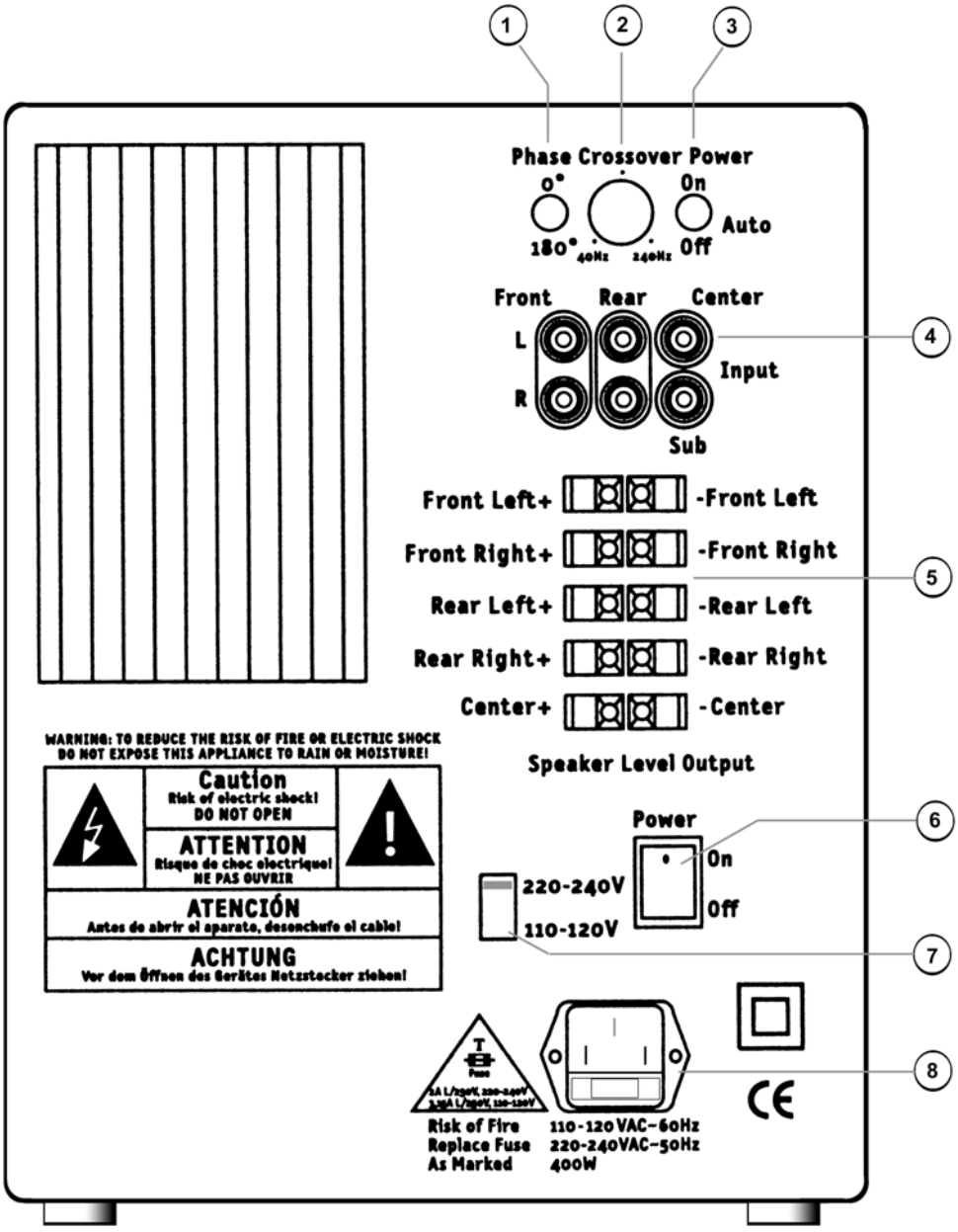
WARNING!

Do not open the appliance! You run the risk of getting an electric shock. The appliance should only be opened by a qualified professional.

The exclamation mark is intended to warn the user of important maintenance and operating instructions in the manual for the appliance.

1. **First read the user guide thoroughly.**
   You should be aware of the safety instructions and operating instructions before use.
2. **Follow the instructions**
   Only then can US Blaster guarantee the proper functioning of your USB 4022.
3. **Cleaning**
   Do not use any cleaning products to clean your USB 4022.
   Use a dry cloth.
4. **Moisture and sunlight**
   Do not use the USB 4022 in a humid environment, and put it in a place where there is no direct sunlight.
5. **Setting up and ventilation**
   Put the USB 4022 on a stable base. Make sure there is sufficient space around the center unit for warm air to be discharged from the cooling profile.
6. **Power supply**
   Make sure that the power level that is set on the rear of the center unit agrees with the mains power level.
   In the United Kingdom the mains power level is 240 V.
7. **Cabling**
   For you safety, first make sure that the power cable is neatly tucked away along the walls and similar.
   No heavy objects should be placed on the mains power cable.
8. **Metal and damp**
   Make sure that no metal objects or moisture can get into your USB 4022.
   If this happens by accident: turn off your USB 4022 and disconnect it from the power supply.
   Seek advice from a qualified professional.
9. **Repair**
   Do not attempt to repair the USB 4022 yourself should it become defective.
   Always use a qualified service technician.
10. **Sound strength**
    Do not set the volume of your USB 4022 too high. A person's hearing can be damaged by long-term exposure to loud sound!

3. Rear panel connections



1 ..... Phase correction setting. You use this control for the fine-tuning of the sound ratio between the front and rear speakers for your listening position.
2 ..... Low-pass filter setting. You can set the frequency for the sound from the center unit with this. You can adjust it to your own preference.
3 ..... Switch for standby mode. The set is always on in the ‘On’ position. In the ‘Auto’ position, the center unit will switch to a standby position if there is no signal on any of the line inputs for 20 minutes.
..... The unit will automatically switch itself back on when there is a signal again.
..... You switch the center unit off when it is in the Off position.
4 ..... Line inputs; connect the corresponding outputs of your media player to these inputs.
5 ..... Speaker connections, see Connecting speakers.
6 ..... On/off switch. This is the main switch for the whole set.
7 ..... Mains power level selector switch. Set this to 220-240V;
8 ..... Fuse holder / input for mains power cable; connect the power cable to an earthed plug socket. To replace the fuse, see chapter: Solving problems.

4. Setting up the speakers

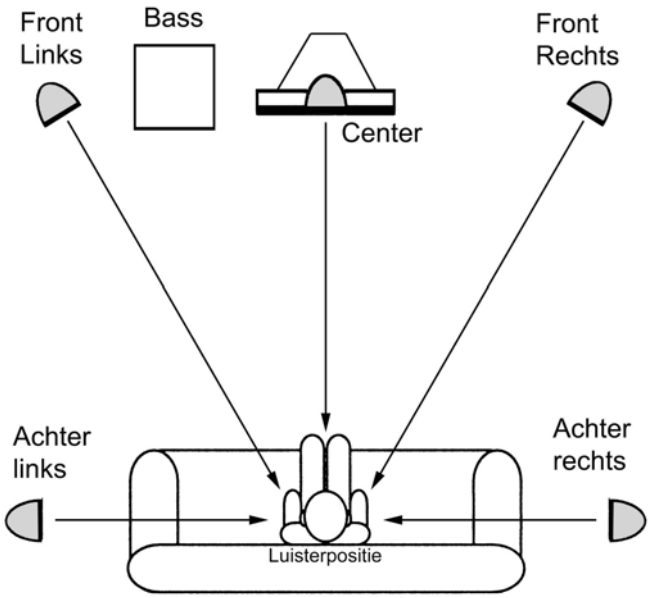
The setting up of the speakers is very important for a Home Cinema installation. That's why we pay special attention to the correct setting up here.

4.1 Center speaker

You can but the center speaker below or on top of the television screen. Lots of information comes form this speaker.
Make sure that this speaker is more or less at ear level of your listening position. That can sometimes mean that the speaker must be tilted forward slightly.

4.2 Front speakers

The front speakers form an important part of the Home Cinema sound just like the center speaker.
The front speakers must be set up at ear level. You can fasten them to the wall with special brackets available in the shops, or mount them on a speaker stand. Various models of these stands are available in sound equipment shops.
The speakers must be an equal distance to the left and right of the center speaker, and at least 1.5 metres apart. Furthermore, the speakers must also be in a straight line with the center speaker. This is shown clearly on the diagram. If you don't do this the sound will go out of phase, which can mean a considerable distortion of the total sound.
Finally, the front speakers must also be directed towards the listener.



Speaker set-up

4.3 Bass speaker / center unit

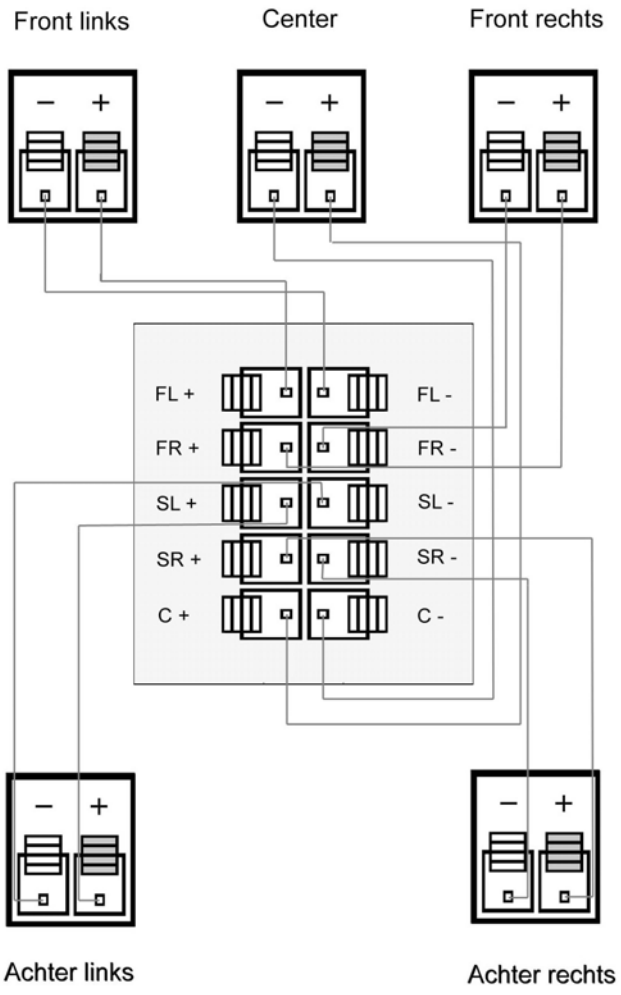
Low tones travel more easily than high tones in sound. The positioning of the low tone speaker is therefore not so relevant. In the case of the USB 4022 the center unit does not actually only function as a bass speaker. The center unit also accommodates the amplifiers and has an infrared sensor for the remote control. Put the Black Label Reference Series center unit, therefore, in a place where the remote control can operate it easily. You can find the best place by trial and error. It is important, however, that there is enough space around the center unit and that the opening of the cabinet, where the indicator panel, is directed towards you.

4.4 Rear speakers

The rear speakers produce the three-dimensional effect in a Home Cinema set-up. Sound is sent to these speakers with a small delay. The positioning of the speakers is related to this delay. In general the rear speakers should be positioned at ear level to the left and right of the listener. The speakers must also be directed towards the listener. You can refine the exact position further by trial and error by moving the speakers slightly behind the listening position to see if you think the sound is better / fuller. The speakers must also be directed towards the listener if they are not set up to the left and right of the listener, but behind.

5. Connecting speakers

You will find one + and one – on the connecting sockets of the speakers and of the center unit. Thirty metres of speaker cable is supplied with your USB 4022. It is a twin-vein cable; one of the veins is marked. Once you have stripped off about 1 cm of the insulation from the vein, use the market vein of the speaker cable to connect the speaker + to the center unit speaker output +. Use the other vein for the –.
If you swap the + and – an important part of the sound will be produced in counter-phase and this results in a poor sound.
Also make sure that the speakers are connected to the correct speaker output.



Speaker connection diagram

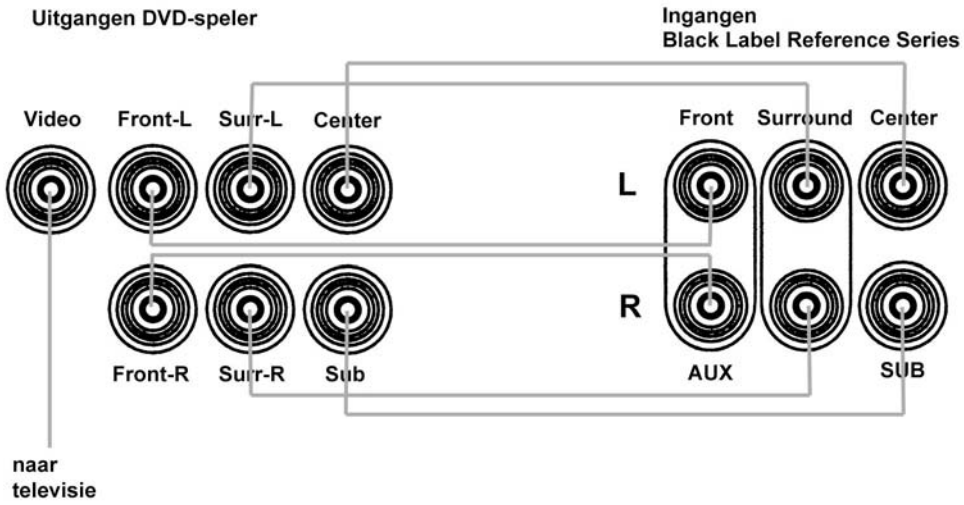
6. Connecting media sources

You can use your USB 4022 in combination with a number of media sources, such as a DVD player, Home Cinema receiver, computer, etc.

It is important to connect this equipment correctly. There is a diagram below to show how you can connect your Black Label Reference Series to various equipment. You can then adjust the sound setting with the remote control or the buttons on the control panel on the front of the center unit. More on this later.

6.1 Connecting a DVD player

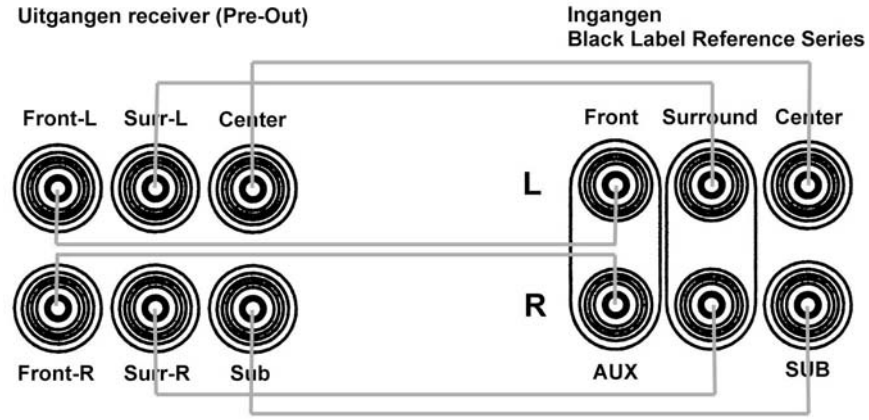
You can connect the line outputs from your DVD player directly to the USB 4022 inputs. You can use the supplied stereo cinch cables for this. This means you can make optimal use of the audio decoders for DTS, Dolby Digital and Dolby Surround built in to the DVD player.



Connection diagram 5.1 DVD player output to Black Label Reference Series

6.2 Connecting a receiver to the Black Label Reference Series

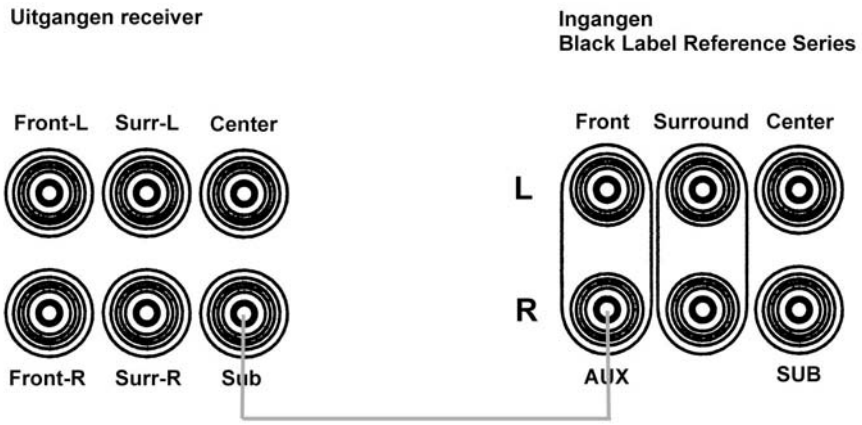
You can connect the line outputs (Pre-Out) from your receiver directly to the corresponding USB 4022 inputs. You can use the supplied stereo cinch cables for this.



Connection diagram 5.1 Receiver outputs to Black Label Reference Series

6.3 Using the USB 4022 as a subwoofer

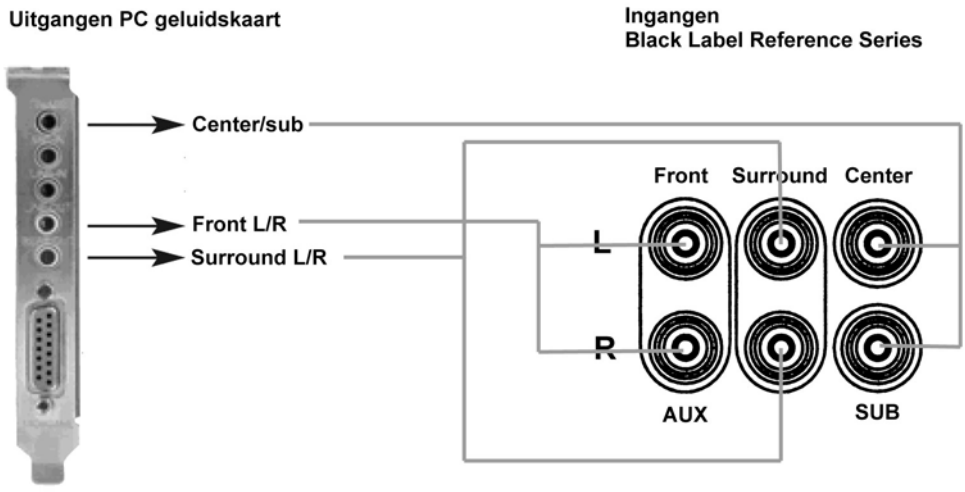
You can also use the USB 4022 as a subwoofer for your current audio installation. You have to connect the subwoofer output from your receiver (Sub Pre-Out) to the Aux input on the center unit (NOT the Sub input!). We recommend that you use a good quality connecting cable between the receiver and the center unit of the USB 4022. Special cables are for sale in the shops for this (Interlinks).



Connection diagram for use a subwoofer

6.4 Connecting a PC sound card to the USB 4022

You can connect your computer to the USB 4022 if your sound card has suitable outputs for the various sound channels. Most computer sound cards have combined line outputs for the left and right channel in one Jack-output. In this case you will, therefore, have to use connecting cables where the combined signal is split up into two separate channels. Such cables are available in the shops. In the diagram below you can see how you can connect the sound card in your computer to the USB 4022.

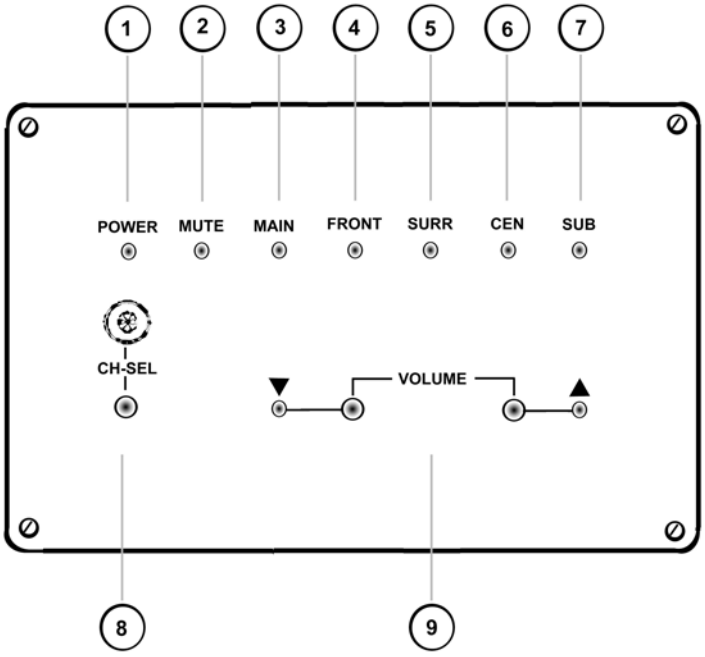


Connection diagram outputs PC Sound card to the USB 4022

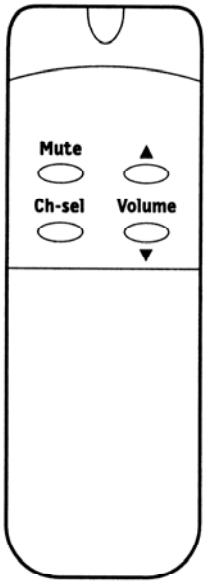
7. Operating the USB 4022

Once you have connected the speakers to an audio/video source, you can operate the Black Label Reference Series in various ways. You can operate the set with the supplied remote control, but it also possible to operate the set manually using the button switches on the front of the center unit. The buttons on the remote control have the same function as those on the front of the center unit.
There is a description of the functions of the LED indicators and operating buttons below.

The control panel on the center unit



Control panel center unit



Remote control

Explanation of LED indicators and operating switches:

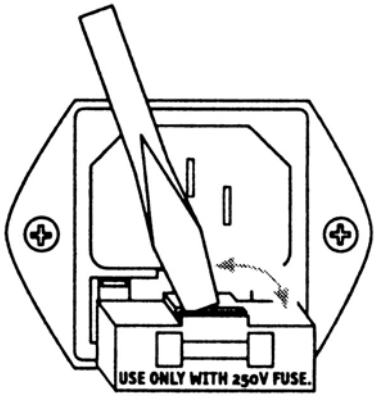
1 .....This LED lights up if the set is on
2 .....This LED lights up if the sound is switched off with the MUTE button on the remote control
3 .....This LED lights up if the volume is being adjusted on all the speakers.
4 .....This LED lights up when you adjust the sound from the front speakers with either the remote control or the CH-SEL switch.

5 .....This LED lights up when you adjust the sound from the rear (surround) speakers with either the remote control or the CH-SEL switch.
6 .....This LED lights up when you adjust the center speaker volume with either the remote control or the CH-SEL switch.
7 .....This LED lights up when you adjust the bass speaker volume with either the remote control or the CH-SEL switch.
8 .....The infrared sensor for the remote control is above the CH-SEL indicator.
.....This LED lights up when you use the remote control and a command is received, and another LED will light up for the relevant function.
.....If you want to adjust the Black Label Reference Series without using the remote control, you can use the button under the infrared sensor.
.....Each time you press on this button, a different LED will light up; you then know which function you have activated to make further adjustments.
9 .....You can adjust the volume of one of the selected channels on your Black Label Reference Series with the Volume and buttons. The LED will light up depending on which function you have selected.
.....You can also use these buttons to change the sound settings without the remote control.

8. Solving problems

There is no sound coming from the USB 4022.
Check that the center unit is connected to the mains power supply, and that the main switch and the switch for standby mode are in the correct positions. The Power LED should be lit on the front panel. Then check that the speakers and the cables from the external media player are connected correctly. Finally, you can also check that the sound is on (is the MUTE LED lit?), and check that the volume is loud enough.
If the USB 4022 is still not working, please contact your supplier!

The Power LED is not lit
If the USB 4022 is connected to the mains power supply, the switches are on and the Power LED is not lit, check the fuse.



The fuse is below the input for the mains power cable. You can open the fuse holder with a screwdriver. Let you supplier check the fuse; they will be able to give you the correct replacement, if it is defective.

The subwoofer buzzes
A buzzing subwoofer is usually caused by the center unit not being properly earthed. Check that the unit is connected to an earthed plug socket. Also check that the cable from the external media player to the USB 4022 center unit is not defective (does not have a mass cable).

Technical specifications

Output capacity
Front ..... 15 Watt / 4 Ohm
Center ..... 15 Watt / 4 Ohm
Surround ..... 15 Watt / 4 Ohm
Bass ..... 100 Watt / 4 Ohm
Distortion ..... ≤ 0.2 %, ≥ 1 % (full capacity)
Signal/noise ratio ..... ≥ 95 dB
Frequency range
Front ..... 20 Hz – 20 kHz (-3 dB)
Center ..... 20 Hz – 20 kHz (-3 dB)
Surround ..... 20 Hz – 20 kHz (-3 dB)
Bass ..... 20 – 140 Hz (-3 dB)
Dimensions (H x B x D)
Center unit ..... 380 x 275 x 420 mm
Center ..... 246 x 90 x 84 mm
Front/Surround ..... 120 x 90 x 104 mm
Power consumption .....
Weight .....